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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

E SEP LUI

Form PCT/IPEA/409 (cover sheet) (July 1998)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notificat	tion of Transmittal of International Examination Report (Form PCT/IPEA/416)
MEKTRON 2			
nternational application No.	International filing date (day	month/year)	Priority date (day/month/year)
PCT/GB 00/ 00950	20/03/2000		18/03/1999
nternational Patent Classification (IPC) o	r national classification and IPC		
	H02B1/30		
pplicant			
MEKTRON SYSTEMS LIMITED	et al.		
This international preliminary exa		ed hy thic Inter	national Preliminary Examining
1. This international preliminary exa Authority and is transmitted to the	ne applicant according to Article	36.	
2. This REPORT consists of a total	ol of 7 sheets including	o this cover she	et.
been amended and are the h	asis for this report and/or sheet:	containing recti	on, claims and/or drawings which have ifications made before this Authority
(see Rule 70.16 and Section	607 of the Administrative Instru	ictions under the	e PCT).
These annexes consists of a total	of sheets.		
3. This report contains indications r	elating to the following items:		
IX Basis of the report			
II Priority			
III Non-establishment of	opinion with regard to novelty,	inventive step ar	nd industrial applicability
IV K Lack of unity of inver			
V Reasoned statement u	nder Article 35(2) with regard to	novelty, invent	ive step or industrial applicability;
citations and explanat	ions supporting such statement		
VI Certain documents cit	red.		
	international application		,
	on the international application		
VIII X Certain observations	on the mermatonia approacon		
Date of submission of the demand	Da	te of completion	of this report
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16/10/2000		20, 12,	CICCHES POR
			E POPAL TO THE PARTY OF THE PAR
Name and mailing address of the IPEA/	Au	thorized officer	Le Guay
European Patent Office D-80298 Munich			
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(11/12/2000)



### International application No.

#### PCT/GB00/00950

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

۱.		Bas	is	of	the	re	port
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<ol> <li>This report has been drawn up on the basis of (Replacement sheets which have been furnished to the receiving Office in response invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contamentments.)</li> </ol>						
X	the international application as originally filed					

		the description, pages	, as originally filed
		pages	, filed with the demand
		pages	, filed with the letter of
		the claims, Nos.	, as originally filed
		Nos.	, as amended under Article 19
		Nos.	, filed with the demand
		Nos.	, filed with the letter of
		the drawings, sheets / fig.	, as originally filed
		sheets / fig.	, filed with the demand
		sheets / fig.	, filed with the letter of
2.	The amendme	ents have resulted in the cancellation of:	
		the description, pages:	•
		the claims, Nos.	

- 3. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2 (c)).
- 4. Additional observations, if necessary:

the drawings, sheets / fig.

IV.		Lack of	unity of invention
1. in	respon	se to the invitat	tion (Form PCT/IPEA/405) to restrict or pay additional fees the applicant has:
		restricted the c	claims.
		paid additional	fees.
		paid additional	fees under protest.
		neither restrict	ed nor paid additional fees.
2.	X		found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite or restrict or pay additional fees.
3. T	his Autl	nority considers	that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with.	·
	X	not complied w	vith for the following reasons:
1.		The se	eparate inventions/groups of invention are:
		(a)	a conduction-cooled hardware enclosure comprising elements formed by casting and machining and the corresponding method of producing thereof (claims 1 to 9 and 19 to 20);
		(b)	a conduction-cooled hardware enclosure comprising elements including a projection portion of a defined length (claims 10 to 16);
		(c)	a conductive-cooled hardware enclosure comprising elements including projection portions and fixing means said fixing means comprising dowels (claims 17 and 18);
		(d)	a method of producing a conduction-cooled hardware enclosure wherein pieces of different sizes are assembled together to form enclosures of the desired size (claims 21 and 22).
2.			are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the ng reasons:
		There	is no common inventive subject-matter between the four groups of claims.
	Conseq report:	uently, the follo	wing parts of the international application were the subject of international preliminary examination in establishing this
	X	all parts.	
		the parts rela	ating to claims Nos.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### 1. Statement

ı	lovelty	Claims	1-22	YES
		Claims	None	NO
ı	nventive Step	Claims	1-20	YES
		Claims	21, 22	NO
ı	ndustrial Applicability	Claims	1-22	YES
		Claims	None	NO

#### 2. Citations and Explanations

# Concerning claims 1 to 9:

- (a) claim 1 relates to a conduction-cooled hardware enclosure comprising elements having projecting portion, said elements being assembled through fixing means;
- (b) nearest prior art is document US-A-4 691 970 which discloses such an enclosure and upon which claim 1 has been delimited;
- (c) the claimed enclosure discloses elements which are formed by casting and machining;
- (d) such a feature appears to be new with respect to the known prior art. It also enables to produce an enclosure which is stronger than the usual one. Therefore claim 1 satisfies the requirements of Article 33(2) and (3) PCT;
- (e) claims 2 to 9 are dependent claims which disclose particular embodiments of the invention they are to be considered as novel and inventive as well.

# 2. <u>Concerning claims 19 and 20</u>:

These claims disclose a method corresponding to the enclosure of claim 1. Therefore claims 19 and 20 have to be considered as novel and inventive Article 33(2) and (3) PCT.

## 3. Concerning claims 10 to 18:

- See part IV of this report
- Concerning more particularly the compliance of these claims with Article 33(2) and (3) PCT, it appears that both independent claims 10 and 17 recite the same preamble as claim 1 and therefore relate to the same prior art. Moreover claim 10 discloses a dimensional relation of the projecting portion which is not clear (see part VIII of this report) but once clarified could be considered as novel and inventive with respect to the known prior art. Claim 17 discloses a fixing means which also appears to be novel and relates to patentable subject-matter.

### 4. Concerning claims 21 and 22:

The teaching of these claims appears to be obvious with respect to the documents cited in the search report.

5. The industrial applicability of the enclosure and corresponding method of claims 1 to 22 is obvious.



## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

1. According to the requirements of Rule 11.13(m) PCT the same feature shall be denoted by the same reference sign throughout the application. This requirement is not met in view of the use of 1 which corresponds to a <a href="https://chassis.com/chassis">chassis</a> (page 4, line 9) in the description and to an <a href="enclosure">enclosure</a> in the set of claims (for instance claim 1, line 1).

# VIII. Certain observations on the international application

The following observations on the claims of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- Claim 1 relates to a device. However, its single characterising feature appears to be a manufacturing step. Therefore claim 1 should be reformulated as a method claim.
- Claim 10 is characterised by the length of the projecting portion, this length being defined with reference to its thickness and to the spacing between the first and the second sides. However neither of these values have been defined in the preamble of claim 10. Therefore claim 10 lacks clarity in terms of Article 6 PCT.
- 3. In claim 19, lines 1 and 2, "an enclosure for conduction-cooled hardware" should read:

"a conduction-cooled hardware enclosure"

- for consistency reasons with the other claim of the set of claims
- to prevent that any document disclosing a box as claimed and which could be suitable for containing any hardware be novelty destroying for claim 19.